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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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DARBY & DARBY PROFESSIONAL CORPORATION 805 THIRD AVENUE			EXAMINER	
			PATEL, GAUTAM	
NEW YORK, NY 10022-7513			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Examiner Gautam R. Patel 2855			Application No.	Applicant(s)				
Gautam R. Patel			09/821,434	FUJIYAMA, KOJI				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions from anyto a sevaluate used the provisions of 3 CFR 1-138(s). In revert, however, may a reply be timely filled Extensions from anyto a sevaluate used the provisions of 3 CFR 1-138(s). In revert, however, may a reply be timely filled The period for reply specified above is less than thirty (50) days, a reply with the statutory relindance of the provision of the communication in the period for reply specified above is less than thirty (50) days, a reply with provision of the period of the provision of the period of the period for reply specified above is less than thirty (50) days, a reply with the statutory relindance of the period		Oπice Action Summary	Examiner	Art Unit /				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Exceptions of time may be available under the provisions of 37 CFR 1.35(a). In no event, however, may a raply be limited little provisions of the provisions of 37 CFR 1.35(a). In no event, however, may a raply be limited little provisions of the provisions of 37 CFR 1.35(a). In no event, however, may a raply be limited little provisions of the provisions of 37 CFR 1.35(a). In no event, however, may a raply be limited little provisional of the provisional application. It NO period for regly is appealed above, the maximum statutory spends will apply and will expense SIX (b) MONTHS from the mailing date of the communication. It NO period for regly is appealed above, the maximum statutory spends will apply and will expense SIX (b) MONTHS from the mailing date of the communication, even if timely flex, may veduce any search of the provision of the provis								
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CPR 1.13(d). In no event, however, may a reply be linely filed after \$3x. (6) MCNTISS from the making date of this communication. It NO periods for reply is specified above, the mastimus of 37 CPR 1.13(d), in no event, however, may a reply be linely filed after \$3x. (6) MCNTISS from the making date of the communication. It NO periods for reply is specified above, the mastimus or priod and apply and will accept \$3x. (6) MCNTISS that the making date of the communication. Part is reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S. C. § 13). Any reply received by the Official extra hin there among after thin making date of this communication, even if funely filed, may reduce any making platent term adjustment. See 97 CPR 1.07(4). Status 1) Responsive to communication(s) filed on 10 July 2003 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-4 is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) 1-4 is/are rejected. 8) The drawing(s) filed on 1-4 is/are: a) accepted or b) objected to by the Examiner. 10) The drawing(s) filed on 1-4 is/are: a) accepted or b) objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 11) The proposed drawing correction filed on 1-4 is/are: a) accepted or b) objected to by the Examiner. 12) The oath or declaration is objected to by the Examiner. 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 2) Alta border of the certified copies of the priority								
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DETAILED ACTION

1. Claims 1-4 are pending for the examination.

Specification

2. The disclosure is objected for following reasons.

The title of the invention is neither precise nor descriptive. A new title is required which should include, using twenty words or fewer, claimed features that differentiate the invention from the Prior Art. It is recommended that the title should reflect the gist of or the improvement of the present invention.

Correction is required.

Claim Rejections - 35 U.S.C. § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. § 102(b) as being anticipated by Yamada et al., US. patent 5,331,615 (hereafter <u>Yamada</u>).

As to claim 1, Yamada discloses the invention as claimed [see Figs. 2-14; especially 2] including Controlling means and transfer function holding means, comprising:

Controlling means [fig. 2, unit 37] for performing seek control for moving said optical pickup to a target track on the optical disc and focus servo control of said optical pickup according to a detected focus error signal and a transfer function; and

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[a] transfer function holding means [fig. 2, unit 37] for holding a first transfer function for executing focus servo when said controlling means does not perform said seek control in and a second transfer function for executing focus servo when said controlling means performs said seek control. Col. 6, line 47 to col. 5] NOTE: computers inherently have memory to hold commands and data.

4. As to claim 4, it is rejected for similar reasons set forth in the rejection of claim 1, supra. As to the added limitation Yamada discloses:

an optical pickup for writing data on an optical disc and/or reading data from the optical disc [col. 5, line 65 to col. 6, line 19 and col. 1, lies 13-41].

Claim Rejections - 35 U.S.C. § 103

5. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 2 and 4 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Yamada as applied to claims 1 and 3 above and in view of Janssen US. patent 4,037,252 (hereafter Janssen).

As to claim 2, Yamada discloses all of the above elements, including the transfer function holding means. Yamada does not specifically disclose that the second transfer function has a smaller gain than the first transfer function and equivalent phase margin for similar stability of first function.

However, it is well known in the art that transfer function can be adjust depending upon the system requirement and reducing gain always provide a better stability in the phase margin. Also Janssen clearly discloses:

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the second transfer function has a smaller gain than the said first transfer function and a phase margin capable of providing substantially same stability as that obtained by said first transfer function [col. 7, line 54 to col. 8, line 11]. Both Yamada and Janssen are interested in providing stable tracking in a disc shaped recording carrier and improving servo system under different conditions.

One of ordinary skill in the art at the time of invention would have realized that external disturbances routinely plague the systems and therefore the scanning point need to be set at a stable setting during external disturbances when they happen. Therefore, it would have been obvious to have provided a transfer function stability criteria of having gain of second transfer function smaller than the first one in the system of Yamada as taught by Janssen because one would be motivated to reduce noise in the system of Yamada by providing a damped oscillation during occurrence of an external disturbance and also transfer function can be varied during this periods [col. 8, lines 1-11; Janssen].

NOTE: Stable and unstable range are equivalent of performing and not performing seek control.

7. As to claim 4, it is rejected for the same reasons set forth in the rejection of claim2, <u>supra</u>.

Other prior art cited

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 1. Tsai et al. (US. patent 5,867,456) "Intelligent optical disk drive control method".
 - 2. Ishioka et al. (US. patent 5,617,388) "Disc recording/reproducing ..".
- 3. Kadlec (US. patent 5,638,230) "Digital servo control system for use in disk drives".
 - a. Takaishi (US. patent 6,088,187) "Control system for two-stage actuator".

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4. Sri-Jayntha et al. (US. patent 6,574,065) "Method and apparatus for adaptive resonance mode cancellation servo in a rotating storage system".

5. LaBudde (US. patent 4,614,986) "Magnetic servo with improved tracking system".

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Contact information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gautam R. Patel whose telephone number is (703) 308-7940. The examiner can normally be reached on Monday through Thursday from 7:30 to 6.

The appropriate fax number for the organization (Group 2650) where this application or proceeding is assigned is (703) 872-9314.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Doris To can be reached on (703) 305-4827

Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 305-4700 or the group Customer Service section whose telephone number is (703) 306-0377.

Gautam R. Patel Patent Examiner Group Art Unit 2655

August 17, 2003